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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MTV-055.25	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			,				
International application No.	International filing date (day/mor	th/year)	Priority date (day/month/year)	7				
PCT/US03/21564	10 July 2003 (10.07.2003)		10 July 2002 (10.07.2002)	1				
International Patent Classification (IPC)	or national classification and IPC		1000) 2002 (20.07.2002)	7				
IPC(7): A61K 31/715; C08B 37/00 and US Cl.: 514/54, 25; 536/123.1, 124, 4.1, 18.7								
Applicant								
MASSACHUSSETS INSTITUTE OF TECHNOLOGY								
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a	total of sheets.		-PO-DG 1					
3. This report contains indications relating to the following items: 19. 11. 2004								
I Basis of the rep	ort		(103)					
II Priority			103	1				
III Non-establishment of report with regard to novelty, inventive step and industrial applicability								
IV Lack of unity of invention								
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documents cited								
VII Certain defects	VII Certain defects in the international application							
VIII Certain observations on the international application								
VIII Certain observations on the international application								
Date of submission of the demand	Data	f completion of	ēā:	-				
10 February 2004 (10.02.2004)		us 2004 (22.08						
Name and mailing address of the IPFA/IIS								
Mail Stop PCT, Attn: IPEA/US Authorized officer Authorized officer								
P.O. Box 1450 Alexandria, Virginia 223 13-1450	1//	C. Menry						
Facsimile No. (703)305-3230 Telephone No. 703 308-1235								

Form PCT/IPEA/409 (cover sheet)(July 1998)

1		International application No.				
INTERNATIONAL PRELIMINARY EXAMINATIO	N REPORT	PCT/US03/21564				
L. Basis of the report						
With regard to the elements of the international application	n:*					
the international application as originally filed.						
the description:						
pages 1-62 as originally filed						
pages NONE , filed with the demand pages NONE , filed with the letter of						
the claims:						
pages 63-68, as originally filed	•					
pages NONE, as amended (together	pages NONE, as amended (together with any statement) under Article 19					
pages NONE, filed with the demand pages NONE, filed with the letter of						
the drawings:						
pages NONE , as originally filed						
pages NONE , filed with the demand	:	•				
pages NONE, filed with the letter of		··································				
the sequence listing part of the description: pages NONE, as originally filed		•				
pages NONE , filed with the demand	:					
pages NONE , filed with the letter of		•				
 With regard to the language, all the elements marke language in which the international application was fit 	d above were a	vailable or furnished to this Authority in the				
These elements were available or furnished to this A	uthority in the	following language which is:				
the language of a translation furnished for the p	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
the language of publication of the international	the language of publication of the international application (under Rule 48.3(b)).					
the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).						
 With regard to any nucleotide and/or amino acid se international preliminary examination was carried out 	equence disclos t on the basis o	sed in the international application, the f the sequence listing:				
contained in the international application in prin	ited form.					
filed together with the international application	filed together with the international application in computer readable form.					
furnished subsequently to this Authority in write	furnished subsequently to this Authority in written form.					
furnished subsequently to this Authority in computer readable form.						
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
The statement that the information recorded in chas been furnished.	omputer readal	ble form is identical to the written sequence listing				
4. The amendments have resulted in the cancellation	on of:	·				
the description, pages NONE						

This report has been established as if (some of) the amendments had not been made, since they have been considered to go

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

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the claims, Nos. <u>NONE</u> the drawings, sheets/fig <u>NONE</u>

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/21564

YES

NO

٧.	Reasoned statement under Rule 66.2(a)(u) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
ı.	STATEMENT						
	Novelty (N)	Claims 3,10-30	YES				

Claims 1,2,4-9

Inventive Step (IS) Claims 3,10-30

YES Claims 1,2,4-9 NO

Industrial Applicability (IA) Claims 1-30 YES Claims NONE NO

2. CITATIONS AND EXPLANATIONS

Claims 3 and 10-30 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the inositols derivatives, compounds or methods of preparing the glycosylphosphatidylinositol glycans of claims 10-30, respectively.

Claims 1,2,4-9 lack novelty under PCT Article 33(2) as being anticipated by JAWOREK et al. Claim 1 is drawn to a compound of a specific formula I. Dependent claims 2 and 4.9 are further limitations of the compound represented by formula I of claim 1.

JAWOREK et al disclose the applicant's compound of claims 1,2,6,8 and 9, wherein n=1, R = -CH-aryl (-CH2-phenyl), R² is Ns. and R' is (-CH2-phenyl) (see STN abstract of the structure). JAWOREK et al. 's compound has the CAS # 344914-78-9. JAWOREK et al disclose the applicant's compound of claims 1,2, 4,5,7 and 8, wherein n=1, R=H, R^3 is -NH₃X, R^1 and R^2 together are $P(O)OR^3$ and $R^4=R^5=H$ (see compound 3, page 376).

Claims1-30 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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